## (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 29 December 2004 (29.12.2004)

## (10) International Publication Number WO 2004/113462 A1

(51) International Patent Classification7: C09B 45/34

C09D 11/00,

(21) International Application Number:

PCT/GB2004/000899

(22) International Filing Date: 3 March 2004 (03.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0314368.2

20 June 2003 (20.06.2003) GB

- (71) Applicant (for all designated States except US): AVECIA LIMITED [GB/GB]; Hexagon House, Blackley, Manchester M9 8ZS (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FOSTER, Clive, Edwin [GB/GB]; Hexagon House, P.O. Box 42, Blackley, Manchester M9 8ZS (GB). MOSCROP, Clive [GB/GB]; Hexagon House, P.O. Box 42, Blackley, Manchester M9 8ZS (GB). WRIGHT, Gavin [GB/GB]; Hexagon House, P.O. Box 42, Blackley, Manchester M9 8ZS (GB). JAMES, Rachel, Anne [GB/GB]; Hexagon House, P.O. Box 42, Blackley, Manchester M9 8ZS (GB).

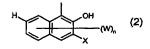
- (74) Agents: MORPETH, Fraser, Forrest et al.; Avecia Limited, Intellectual Property Group, P.O. Box 42, Hexagon House, Blackley, Manchester M9 8ZS (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MAGENTA METAL CHELATE DYES AND THEIR USE IN INK-JET PRINTERS



(57) Abstract: A metal chelate compound of Formula: (1) or a salt thereof: [A-N=N-B] M (Formula (1)) wherein: A is an optionally substituted pyridyl ring; and B is of the Formula: (2): wherein: X and W are substituents other than H; M is a metal chelated to A-N=N-B; and n is 0 to 4, also claimed are compositions and inks containing a compound of Formula: (1), a process for ink jet printing using the inks and an ink jet plinter cartridge containing the ink.